

# **STIC Search Report**

## **EIC 2800**

**STIC Database Tracking Number: 151833**

**TO: Peguy JeanPierre  
Location: JEF-5A89  
Art Unit : 2819  
Wednesday, April 27, 2005**

**Case Serial Number: 09/844740**

**From: Darcy Bates  
Location: EIC 2800  
JEF- 4B68  
Phone: 571-272-2540**

**darcy.bates@uspto.gov**

### **Search Notes**

**Re: 09/844,740 US 5,898,394**

**Attached are search results.**

**No U. S. litigation was found in searches of  
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let  
me know.**

**Thanks,  
Darcy Bates**

## Bates, Darcy

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**From:** Unknown@Unknown.com  
**Sent:** Monday, April 25, 2005 11:49 AM  
**To:** STIC-EIC2800  
**Subject:** Generic form response

ResponseHeader=Commercial Database Search Request

AccessDB#= \_\_\_\_\_

LogNumber= \_\_\_\_\_

Searcher= \_\_\_\_\_

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SearcherBranch= \_\_\_\_\_

MyDate=Mon Apr 25 11:49:05 EDT 2005

submitto=STIC-EIC2800@uspto.gov

Name=peguy jeanpierre

Empno=72658

Phone=21803

Artunit=2819

Office=Jeff 5A89

Serialnum=09/844740

PatClass=341/58

Earliest=4/26/2001

Format1=paper

Searchtopic=Litigation search

Comments=

send=SEND

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Patent Search - Number: 5,898,394

+

No cases containing this patent number were found.

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(Charges for search still apply)

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Terms: **patno=5898394** ([Edit Search](#))

900436 (08) 5898394 April 27, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5898394**

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[Link to Claims Section](#)

April 27, 1999

Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus

**REISSUE:** Reissue Application filed Apr. 26, 2001 (O.G. Jun. 19,, (O.G. June 19, 2001)

**INVENTOR:** Kobayashi, Yoshiharu - Katano, Japan (JP); Mutoh, Akira - Sakai, Japan (JP); Tanaka, Shin-ichi - Tuzuki-gun, Japan (JP); Akahira, Nobuo - Kyoto, Japan (JP)

**APPL-NO:** 900436 (08)

**FILED-DATE:** July 25, 1997

**GRANTED-DATE:** April 27, 1999

**PRIORITY:** July 31, 1996 - 8201615, Japan (JP); September 11, 1996 - 8240304, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Matsushita Electric Industrial Co., Ltd., Kadoma, Japan (JP), 03

**ASSIGNEE-AFTER-ISSUE:** October 15, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA 571 JAPAN, Reel and Frame Number: 08759/0109

**LEGAL-REP:** Renner, Otto, Boisselle & Sklar, PL.

**PUB-TYPE:** April 27, 1999 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**US-MAIN-CL:** 341#58

**US-ADDL-CL:** 341#59, 360#39

**CL:** 341, 360



**SEARCH-FLD:** 341#58, 341#59, 341#94, 341#95, 360#48, 360#39, 360#32, 369#443.8

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) ?**Enter Search Terms**☒ Terms and Connectors ☐ Natural Language

patno=5898394

[Suggest Terms  
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Select a Segment Add **Note:** Segment availability differs between sources. Segments may not be applied consistently across sources.**Restrict by Date:**☒ No Date Restrictions  ☐ From  To  [Date Formats...](#)**Search Connectors**

Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

**Syntax Definition**

<a href="#">and</a>	and
<a href="#">or</a>	or
<a href="#">w/N</a>	within N words
<a href="#">not w/N</a>	not within N words
<a href="#">pre /N</a>	precedes by N words
<a href="#">w/p</a>	in same paragraph
<a href="#">not w/p</a>	not in same paragraph
<a href="#">w/seg</a>	in same segment
<a href="#">not w/seg</a>	not in same segment
<a href="#">w/s</a>	in same sentence
<a href="#">not w/s</a>	not in same sentence
<a href="#">and not</a>	and not

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Query/Command : us5898394/pn

\*\* SS 7: Results 1

Search statement 8

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image  
PN - US5898394 A 19990427 [US5898394]  
TI - (A) Code conversion method and apparatus, code recording medium,  
code recording apparatus and code reproducing apparatus  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)  
PAO - Matsushita Electric Industrial Company, Ltd., Kadoma [JP]  
IN - (A) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
(JP); TANAKA SHIN-ICHI (JP)  
AP - US90043697 19970725 [1997US-0900436]  
PR - JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
IC - (A) H03M-007/00  
EC - G11B-020/10  
G11B-020/10A  
G11B-020/14A2B  
H03M-005/14B  
PCL - ORIGINAL (O) : 341058000; CROSS-REFERENCE (X) : 341059000  
360039000  
DT - Corresponding document  
CT - US4603413; US4731797; US5122912; US5151699; US5451943; US5661707  
STG - (A) United States patent  
AB - A code conversion method and apparatus is provided for scrambling  
and modulating data. The method and apparatus includes scrambling  
an input main data unit based on any of plural types of  
pseudo-random number sequences, and modulating the scrambled main  
data unit based on any of plural types of modulation data. An  
output main data unit is produced from the modulated main data  
unit, and a calculated value representing a difference between a  
number of 0 bits and a number of 1 bits included in the output  
main data unit is obtained. Any of the modulation data is then  
selected dependent upon the calculated value. The method and  
apparatus further includes determining whether or not a variation  
of the calculated value has exceeded a predetermined threshold,  
newly selecting another pseudo-random number sequence used for the  
step of scrambling if it is determined that the variation of the  
calculated value has exceeded the predetermined threshold value,  
and re-scrambling the input main data unit based on the newly  
selected pseudo-random number sequence.

1 / 1 LGST - ©EPO  
PN - US5898394 A 19990427 [US5898394]  
AP - US90043697 19970725 [1997US-0900436]  
ACT - 19971015 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZ;  
EFFECTIVE DATE: 19970918

4/27/05

US 5,898,394

09/844740

19971015 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: KOBAYASHI, YOSHIHARU; EFFECTIVE DATE: 19970918

19971015 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: MUTOH, AKIRA; EFFECTIVE DATE: 19970918

19971015 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: TANAKA, SHIN-ICHI; EFFECTIVE DATE: 19970918

19971015 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: AKAHIRA, NOBUO; EFFECTIVE DATE: 19970918

20010619 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20010426

UP - 2003-22

1 / 1 CRXX - @CLAIMS/RRX  
AN - 3141515  
PN - 5,898,394 A 19990427 [US5898394]  
PA - Matsushita Electric Industrial Co Ltd JP  
PT - E (Electrical)  
ACT - 20010426 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010619  
REISSUE REQUEST NUMBER: 09/844740  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2819

Reissue Patent Number:

UP - 2001-25  
UACT- 2001-06-19

Search statement 8

Query/Command : fam us5898394/pn

1 Patent Groups  
\*\* SS 8: Results 10

Search statement 9

Query/Command : famstate nonstop

1 / 10 PLUSPAT - @QUESTEL-ORBIT

PN - CN1380652 A 20021120 [CN1380652]  
STG - (A) Unexamined application  
TI - (A) Scramble data method, information recording method and code recording and reproducing equipment  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)  
IN - (A) AKIRA TAKEU (JP); RYOJI OHAYASHI (JP); SHINICHI TANAKA (JP)  
IC - (A) G11B-020/10 G11B-020/24  
AP - CN02106166 20020405 [2002CN-0106166]  
PR - JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
UP - 2002-50

2 / 10 PLUSPAT - ©QUESTEL-ORBIT

PN - CN1183609 A 19980603 [CN1183609]  
STG - (A) Unexamined application  
TI - (A) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)  
IN - (A) KOBAYASHI YOSHIHARU (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)  
IC - (A) G11B-007/00 H03M-007/00  
PN2 - CN1109333 C 20030521 [CN1109333C]  
STG2- (C) Granted patent  
TI2 - (C) Code conversion method and apparatus  
PA2 - (C) MATSUSHITA ELECTRIC IND CO LTD (JP)  
IN2 - (C) KOBAYASHI YOSHIHARU (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)  
IC2 - (C) G11B-007/00 H03M-007/00  
AP - CN97118660 19970731 [1997CN-0118660]  
PR - JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]

3 / 10 PLUSPAT - ©QUESTEL-ORBIT - image

PN - EP0822555 A2 19980204 [EP-822555]  
STG - (A2) Pub. Of applic. Without search report  
TI - (A2) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus  
OTI - (A2) Kodeumsetzungsverfahren und -vorrichtung, Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und Kodewiedergabevorrichtung  
(A2) Méthode et appareil de conversion de code, support d'enregistrement de code, appareil d'enregistrement de code et appareil de restitution de code  
PA - (A2) MATSUSHITA ELECTRIC IND CO LTD (JP)  
IN - (A2) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA (JP); TANAKA SHIN-ICHI (JP)  
IC - (A2) G11B-020/14 H03M-005/14  
PN2 - EP0822555 A3 20020403 [EP-822555]  
STG2- (A3) Publi. Of search report  
TI2 - (A3) Code conversion method and apparatus, code recording medium, code recording apparatus and code reproducing apparatus  
OTI2- (A3) Kodeumsetzungsverfahren und -vorrichtung, Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und Kodewiedergabevorrichtung  
(A3) Méthode et appareil de conversion de code, support d'enregistrement de code, appareil d'enregistrement de code et appareil de restitution de code  
PA2 - (A3) MATSUSHITA ELECTRIC IND CO LTD (JP)  
IN2 - (A3) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA



(JP); TANAKA SHIN-ICHI (JP)  
**IC2** - (A3) G11B-020/14 H03M-005/14  
**LA** - ENGLISH (ENG)  
**AP** - EP97113214 19970731 [1997EP-0113214]  
**PR** - JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
**EC** - G11B-020/10  
G11B-020/10A  
G11B-020/14A2B  
H03M-005/14B  
**DS** - AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
**DT** - Basic

1 / 1 *LEGALI* - ©EPO  
**PN** - EP0822555 A2 19980204 [EP-822555]EP0822555 A3 20020403 [EP-822555]  
**AP** - EP97113214 19970731 [1997EP-0113214]  
**ACTE-** 19980204 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
  
19980204 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 19970818  
  
19980204 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB  
  
20020403 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
  
20020904 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20020718  
  
20030102 EP/AKX-A [+]  
PAYMENT OF DESIGNATION FEES  
DE FR GB  
**UP** - 2003-22

4 / 10 *PLUSPAT* - ©QUESTEL-ORBIT - image  
**PN** - EP1335370 A1 20030813 [EP1335370]  
**STG** - (A1) Public. Of applic. With search report  
**TI** - (A1) Code conversion method and apparatus, code recording medium,  
code recording apparatus and code reproducing apparatus  
**OTI** - (A1) Kodeumsetzungsverfahren und -vorrichtung,  
Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und  
Kodewiedergabevorrichtung  
(A1) Méthode et appareil de conversion de code, support  
d'enregistrement de code, appareil d'enregistrement de code et  
appareil de restitution de code  
**PA** - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)  
**PAO** - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Ohaza Kadoma /  
Kadoma-shi, Osaka 571-8501 (JP)  
**IN** - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
(JP); TANAKA SHIN-ICHI (JP)  
**IC** - (A1) G11B-020/14 H03M-005/14  
**LA** - ENGLISH (ENG)

AP - EP03010314 19970731 [2003EP-0010314]  
PR - EP97113214 19970731 [1997EP-0113214]  
JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
EC - G11B-020/10A  
G11B-020/14A2B  
H03M-005/14B  
DS - DE FR GB  
DT - Basic  
UP - 2003-33

1 / 1 LEGALI - ©EPO  
PN - EP1335370 A1 20030813 [EP1335370]  
AP - EP03010314 19970731 [2003EP-0010314]  
ACTE- 20030813 EP/AC-A  
DIVISIONAL APPLICATION (ART. 76) OF:  
(EP 0822555 [EP-822555])

20030813 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB

20030813 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20030520

20040506 EP/AKX-A [+]  
PAYMENT OF DESIGNATION FEES  
DE FR GB

20041103 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20040921

UP - 2004-45

5 / 10 PLUSPAT - ©QUESTEL-ORBIT - image  
PN - EP1335371 A1 20030813 [EP1335371]  
STG - (A1) Public. Of applic. With search report  
TI - (A1) Code conversion method and apparatus, code recording medium,  
code recording apparatus and code reproducing apparatus  
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung,  
Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und  
Kodewiedergabevorrichtung  
(A1) Méthode et appareil de conversion de code, support  
d'enregistrement de code, appareil d'enregistrement de code et  
appareil de restitution de code  
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)  
PAO - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Ohaza Kadoma /  
Kadoma-shi, Osaka 571-8501 (JP)  
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
(JP); TANAKA SHIN-ICHI (JP)  
IC - (A1) G11B-020/14 H03M-005/14  
LA - ENGLISH (ENG)  
AP - EP03010315 19970731 [2003EP-0010315]  
PR - EP97113214 19970731 [1997EP-0113214]  
JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
DS - DE FR GB  
UP - 2003-33

1 / 1    *LEGALI - @EPO*  
PN -    EP1335371 A1 20030813 [EP1335371]  
AP -    EP03010315 19970731 [2003EP-0010315]  
ACTE-    20030813 EP/AC-A  
         DIVISIONAL APPLICATION (ART. 76) OF:  
         (EP 0822555 [EP-822555])

20030813 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB

20030813 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20030520

20040414 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20040302

20040506 EP/AKX-A [+]  
PAYMENT OF DESIGNATION FEES  
DE FR GB

UP -    2004-19

6 / 10    *PLUSPAT - @QUESTEL-ORBIT - image*  
PN -    EP1335372 A1 20030813 [EP1335372]  
STG -    (A1) Public. Of applic. With search report  
TI -    (A1) Code conversion method and apparatus, code recording medium,  
         code recording apparatus and code reproducing apparatus  
OTI -    (A1) Kodeumsetzungsverfahren und -vorrichtung,  
         Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und  
         Kodewiedergabevorrichtung  
         (A1) Méthode et appareil de conversion de code, support  
         d'enregistrement de code, appareil d'enregistrement de code et  
         appareil de restitution de code  
PA -    (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)  
PAO -    MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Oaza-Kadoma /  
         Kadoma-shi, Osaka 571-8501 (JP)  
IN -    (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
         (JP); TANAKA SHIN-ICHI (JP)  
IC -    (A1) G11B-020/14 H03M-005/14  
LA -    ENGLISH (ENG)  
AP -    EP03010317 19970731 [2003EP-0010317]  
PR -    EP97113214 19970731 [1997EP-0113214]  
         JP20161596 19960731 [1996JP-0201615]  
         JP24030496 19960911 [1996JP-0240304]  
DS -    DE FR GB  
UP -    2003-33

1 / 1    *LEGALI - @EPO*  
PN -    EP1335372 A1 20030813 [EP1335372]  
AP -    EP03010317 19970731 [2003EP-0010317]  
ACTE-    20030813 EP/AC-A  
         DIVISIONAL APPLICATION (ART. 76) OF:  
         (EP 0822555 [EP-822555])

20030813 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB

20030813 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20030520

20040506 EP/AKX-A [+]  
PAYMENT OF DESIGNATION FEES  
DE FR GB

20041103 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20040921

UP - 2004-45

7 / 10 PLUSPAT - @QUESTEL-ORBIT - image  
PN - EP1335373 A1 20030813 [EP1335373]  
STG - (A1) Public. Of applic. With search report  
TI - (A1) Code conversion method and apparatus, code recording medium,  
code recording apparatus and code reproducing apparatus  
OTI - (A1) Kodeumsetzungsverfahren und -vorrichtung,  
Kodeaufzeichnungsmedium, Kodeaufzeichnungsvorrichtung und  
Kodewiedergabevorrichtung  
(A1) Code, appareil d'enregistrement de code et appareil de  
restitution de code, méthode et appareil de conversion de code,  
support d'enregistrement de code  
PA - (A1) MATSUSHITA ELECTRIC IND CO LTD (JP)  
PAO - MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. / 1006, Oaza-Kadoma /  
Kadoma-shi, Osaka 571-8501 (JP)  
IN - (A1) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
(JP); TANAKA SHIN-ICHI (JP)  
IC - (A1) G11B-020/14 H03M-005/14  
LA - ENGLISH (ENG)  
AP - EP03010321 19970731 [2003EP-0010321]  
PR - EP97113214 19970731 [1997EP-0113214]  
JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
DS - DE FR GB  
UP - 2003-33

1 / 1 LEGALI - @EPO  
PN - EP1335373 A1 20030813 [EP1335373]  
AP - EP03010321 19970731 [2003EP-0010321]  
ACTE- 20030813 EP/AC-A  
DIVISIONAL APPLICATION (ART. 76) OF:  
(EP 0822555 [EP-822555])

20030813 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE FR GB

20030813 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20030520

20040414 EP/17Q-A [+]  
FIRST EXAMINATION REPORT

EFFECTIVE DATE: 20040302

20040506 EP/AKX-A [+]  
PAYMENT OF DESIGNATION FEES  
DE FR GB

UP - 2004-19

8 / 10 PLUSPAT - @QUESTEL-ORBIT - image  
PN - JP10144007 A 19980529 [JP10144007]  
STG - (A) Doc. Laid open to publ. Inspec.  
TI - (A) CODE CONVERSION SYSTEM, CODE CONVERTING DEVICE, CODE RECORDING  
MEDIUM, CODE RECORDER AND CODE REPRODUCING DEVICE  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD  
PAO - (A) MATSUSHITA ELECTRIC IND CO LTD  
IN - (A) KOBAYASHI RYOJI; TANAKA SHINICHI; MUTO AKIRA; AKAHIRA NOBUO  
IC - (A) G11B-020/14 H03M-007/14  
AP - JP19762697 19970723 [1997JP-0197626]  
PR - JP19762697 19970723 [1997JP-0197626]  
JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]

9 / 10 PLUSPAT - @QUESTEL-ORBIT - image  
PN - JP2004355803 A 20041216 [JP2004355803]  
STG - (A) Doc. Laid open to publ. Inspec.  
TI - (A) CODE CONVERSION SYSTEM, CODE CONVERSION APPARATUS, CODE  
RECORDING MEDIUM, CODE RECORDING DEVICE, AND CODE REPRODUCING  
DEVICE  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD  
IN - (A) AKAHIRA NOBUO; KOBAYASHI RYOJI; MUTO AKIRA; TANAKA SHINICHI  
IC - (A) G11B-020/14 H03M-007/14  
AP - JP2004210831 20040716 [2004JP-0210831]  
PR - JP2004210831 20040716 [2004JP-0210831]  
JP20161596 19960731 [1996JP-0201615]  
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UP - 2005-04

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PN - US5898394 A 19990427 [US5898394]  
STG - (A) United States patent  
TI - (A) Code conversion method and apparatus, code recording medium,  
code recording apparatus and code reproducing apparatus  
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)  
PAO - Matsushita Electric Industrial Company, Ltd., Kadoma [JP]  
IN - (A) KOBAYASHI YOSHIHARU (JP); AKAHIRA NOBUO (JP); MUTOH AKIRA  
(JP); TANAKA SHIN-ICHI (JP)  
IC - (A) H03M-007/00  
AP - US90043697 19970725 [1997US-0900436]  
PR - JP20161596 19960731 [1996JP-0201615]  
JP24030496 19960911 [1996JP-0240304]  
EC - G11B-020/10  
G11B-020/10A  
G11B-020/14A2B  
H03M-005/14B  
PCL - ORIGINAL (O) : 341058000; CROSS-REFERENCE (X) : 341059000  
360039000  
DT - Corresponding document

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PN - US5898394 A 19990427 [US5898394]

AP - US90043697 19970725 [1997US-0900436]

ACTE- 19971015 US/AS02-A

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<a href="#">or</a>	or
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<a href="#">not w/N</a>	not within N words
<a href="#">pre /N</a>	precedes by N words
<a href="#">w/p</a>	in same paragraph
<a href="#">not w/p</a>	not in same paragraph
<a href="#">w/seg</a>	in same segment
<a href="#">not w/seg</a>	not in same segment
<a href="#">w/s</a>	in same sentence
<a href="#">not w/s</a>	not in same sentence
<a href="#">and not</a>	and not

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